Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	60	((format or mode) adj detection) and (time with (more or above) with threshold)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:18
L2	2	"4596981".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:19
L3	2	"4044336".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:32
L4	2164	375/224	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:33
L5	48	"blind transport format detection"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:35
L6	0	4 and 5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:33
L7	815	375/225	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:34
L8	3	5 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:34
L9	3226	375/340	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:34
L10	1	5 and 9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:34

L11	502	375/342	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:34
L12	0	5 and 11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:34
L13	11	"blind transport format detection" and (time with period)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:35
S1	1	"09/966504"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/13 18:47
S2	0	"PCT/EP99/06719"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/13 18:48
S3	0	"DETERMINATION OF DATA RATE BASED ON POWER SPECT'RAL DENSIW ESTIMATES"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/13 18:49
S4	0	"DETERMINATION OF DATA RATE BASED ON POWER SPECTRAL DENSIW ESTIMATES"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/13 18:49
S5	0	"DETERMINATION OF DATA RATE BASED ON POWER SPECTRAL DENSITY ESTIMATES"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/13 18:50
S6	19	HORNEMAN-Kari.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/14 15:10
S7	0	"WO 01/19043 "	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/14 15:10

S8	0	"WO01/19043"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/14 15:10
S9	0	"01/19043"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/14 15:10
S10	171	"19043"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/14 15:11
S11	0	"PCT/EP99/06719"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/14 15:13
S12	47	PALENIUS.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/14 15:13
S13	20	PALENIUS-torgny.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/14 15:40
S14	2	"5923705".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/14 15:40
S15	2	"5928377".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/14 15:41
S16	1	"09/966828"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 06:36
S17	3	"09/933604"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 07:38

S18	2	"6732302".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 07:43
S19	0	"GB0124238.7"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 08:46
S20	0	"GB0124238.7"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 08:46
S21	0	GB0124238	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 08:46
S22	3430915	GB "0124238"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 08:46
S23	38	"0124238"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 08:46
S24	0	"0124238.7"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 08:46
S25	5	"0124238" and GB	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 08:47
S26	183	UbiNetics	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 08:47
S27	48	"blind transport format detection"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:32

S28	4	S26 and S27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 08:48
S29	0	(format adj detection) and "amount of information"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 13:46
S30	19	(format adj detection) and (amount near2 information)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 09:14
S31	2	(format adj detection) and (amount near2 information) and threshold	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 09:21
S32	7	(format adj detection) and (((power or signal) with level) with threshold)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 10:13
S33	1	(format adj detection) and (((power or signal) with level) with threshold) and guiding	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 09:30
S34	2	(format adj detection) and (((power or signal) with level) with threshold) and guid$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 09:37
S35	569	(format adj detection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 09:37
S36	55	blind with (format adj detection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 09:37
S37	4	S26 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 09:53

S38	4	"4596981".pn. "4044336".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 09:55
S39	0	EP0320882A2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 09:55
S40	0	EP0320882	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 09:56
S41	0	"EP0320882"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 09:56
S42	3	"EP 320882"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 09:57
S43	2	"EP 569688"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 09:57
S44	74	(format near2 detection) and (((amplitude or magnitude or power or signal) with level) same threshold)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:41
S45	19	(format near detection) and (((amplitude or magnitude or power or signal) with level) same threshold)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 10:14
S46	19	(format near detection) and (((amplitude or magnitude or power or signal) with level) same threshold)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 10:31
S47	31	(format near detection) and (((amplitude or magnitude or power or signal) same level) same threshold)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 10:37

S48	64	blind with format with detection	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:10
S49	8655	format with detection	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:11
S50	815	375/225	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:17
S51	14	S49 and S50	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:11
S52	21715	format with detect$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:11
S53	1762	format adj detect$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:11
S54	6	S50 and S53	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:11
S55	3226	375/340	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:17
S56	3315	39and S55	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:17
S57	6	S53 and S55	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:18

S58	9159	(duration or time) with (((amplitude or magnitude or power or signal) with level) with threshold)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:45
S59	179	S52 and S58	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:45
S60	0	S52 and S58 and (treshold with above)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:45
S61	122	S52 and S58 and (threshold with above)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:49
S62	10	S53 and S58 and (threshold with above)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:49
S63	22	"blind transport format detection" and 3gpp	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 11:56
S64	0	"2002/0103090"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 12:09
S65	1	"2002/0108090"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 12:10
S66	43	"0108090"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 12:11
S67	682	ariel.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 12:11

S68	657	714/792	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 12:11
S69	5	S67 and S68	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 12:11

8.10.1 Minimum requirement

For the parameters specified in Table 8.37 the average downlink $\frac{DPCH\_E_c}{I_{or}}$ power shall be below the specified value for the BLER shown in Table 8.38.

Table 8.37: Test parameters for Blind transport format detection

Parameter	Unit	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6
$\hat{I}_{or}/I_{oc}$	dB	-1			-3		
I_{oc}	dBm/3.84 MHz	-60					
Information Data Rate	kbps	12.2 (rate 1)	7.95 (rate 2)	1.95 (rate 3)	12.2 (rate 1)	7.95 (rate 2)	1.95 (rate 3)
propagation condition	-	static			multi-path fading case 3		
TFCI	-	off					

Table 8.38: The Requirements for DCH reception in Blind transport format detection

Test Number	$\frac{DPCH\_E_c}{I_{or}}$	BLER	FDR
1	-17.7 dB	10^{-2}	10^{-4}
2	-17.8 dB	10^{-2}	10^{-4}
3	-18.4 dB	10^{-2}	10^{-4}
4	-13.0 dB	10^{-2}	10^{-4}
5	-13.2 dB	10^{-2}	10^{-4}
6	-13.8 dB	10^{-2}	10^{-4}

* The value of DPCH_Ec/Ior, Ioc, and Ior/Ioc are defined in case of DPCH is transmitted

NOTE: In this test, 9 different Transport Format Combinations (Table 8.39) are sent during the call set up procedure, so that the UE has to detect the correct transport format from these 9 candidates.

Table 8.39: Transport format combinations informed during the call set up procedure in the test

	1	2	3	4	5	6	7	8	9
DTCH	12.2k	10.2k	7.95k	7.4k	6.7k	5.9k	5.15k	4.75k	1.95k
DCCH	2.4k								

If the transport format set for a TrCH *i* contains one transport format only, no transport format detection needs to be performed for this TrCH.

For uplink, blind transport format detection is a network controlled option. For downlink, the UE shall be capable of performing blind transport format detection, if certain restrictions on the configured transport channels are fulfilled.

For a DPCH associated with a PDSCH, the DPCCH shall include TFCI.

4.3.1 Blind transport format detection

When no TFCI is available then explicit blind detection or guided detection shall be performed on all TrCHs within the CCTrCH that have more than one transport format. The UE shall only be required to support blind transport format detection if all of the following restrictions are fulfilled:

1. the number of CCTrCH bits received per radio frame is 600 or less;
2. the number of transport format combinations of the CCTrCH is 64 or less;
3. fixed positions of the transport channels is used on the CCTrCH to be detected;
4. convolutional coding is used on all explicitely detected TrCHs;
5. CRC is appended to all transport blocks on all explicitely detected TrCHs;
6. the number of explicitely detected TrCHs is 3 or less;
7. for all explicitely detected TrCHs *i*, the number of code blocks in one TTI (C_i) shall not exceed 1;
8. the sum of the transport format set sizes of all explicitely detected TrCHs, is 16 or less. The transport format set size is defined as the number of transport formats within the transport format set;
9. there is at least one TrCH that can be used as the guiding transport channel for all transport channels using guided detection.

Examples of blind transport format detection methods are given in annex A.

4.3.2 Transport format detection based on TFCI

If a TFCI is available, then TFCI based detection shall be applicable to all TrCHs within the CCTrCH. The TFCI informs the receiver about the transport format combination of the CCTrCHs. As soon as the TFCI is detected, the transport format combination, and hence the transport formats of the individual transport channels are known.

4.3.3 Coding of Transport-Format-Combination Indicator (TFCI)

The TFCI bits are encoded using a (32, 10) sub-code of the second order Reed-Muller code. The coding procedure is as shown in figure 9.

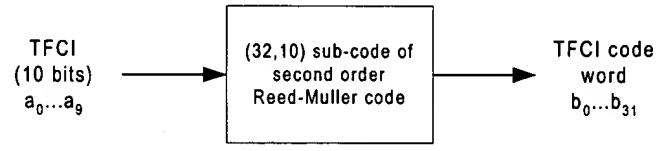

Figure 9: Channel coding of TFCI bits

If the TFCI consist of less than 10 bits, it is padded with zeros to 10 bits, by setting the most significant bits to zero. The length of the TFCI code word is 32 bits.

The code words of the (32,10) sub-code of second order Reed-Muller code are linear combination of 10 basis sequences. The basis sequences are as in the following table 7.

Annex A (informative): Blind transport format detection

A.1 Blind transport format detection using fixed positions

A.1.1 Blind transport format detection using received power ratio

For the dual transport format case (the possible data rates are 0 and full rate, and CRC is only transmitted for full rate), blind transport format detection using received power ratio can be used.

The transport format detection is then done using average received power ratio of DPDCH to DPCCH. Define the following:

- *Pc:* Received power per bit of DPCCH calculated from all pilot and TPC bits per slot over a radio frame;
- *Pd:* Received power per bit of DPDCH calculated from *X* bits per slot over a radio frame;
- *X:* the number of DPDCH bits per slot when transport format corresponds to full rate;
- *T:* Threshold of average received power ratio of DPDCH to DPCCH for transport format detection.

The decision rule can then be formulated as:

If *Pd/Pc* >*T* then:

- full rate transport format detected;

else

- zero rate transport format detected.

A.1.2 Blind transport format detection using CRC

For the multiple transport format case (the possible data rates are 0, ..., (full rate)/r, ..., full rate, and CRC is transmitted for all transport formats), blind transport format detection using CRC can be used.

At the transmitter, the data stream with variable number of bits from higher layers is block-encoded using a cyclic redundancy check (CRC) and then convolutionally encoded. CRC parity bits are attached just after the data stream with variable number of bits as shown in figure A.1.

The receiver knows only the possible transport formats (or the possible end bit position $\{n_{end}\}$) by Layer-3 negotiation. The receiver performs Viterbi-decoding on the soft decision sample sequence. The correct trellis path of the Viterbi-decoder ends at the zero state at the correct end bit position.

The blind transport format detection method using CRC traces back the surviving trellis path ending at the zero state (hypothetical trellis path) at each possible end bit position to recover the data sequence. For each recovered data sequence error-detection is performed by checking the CRC, and if there is no error, the recovered sequence is declared to be correct.

The following variable is defined:

$$s(n_{end}) = -10 \log \left((a_0(n_{end}) - a_{min}(n_{end})) / (a_{max}(n_{end}) - a_{min}(n_{end})) \right) \text{ [dB]} \quad \text{(Eq. 1)}$$

where $a_{max}(n_{end})$ and $a_{min}(n_{end})$ are the maximum and minimum path-metric values among all survivors at end bit position n_{end}, and $a_0(n_{end})$ is the path-metric value at zero state.

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... At 500 MHz, the VCOP handles 400 3GPP 12.2Kbps AMR decoding channels and 200 **Blind Transport Format Detection** (BTFD) channels, and the TCOP handles 20 turbo ...
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[PDF] TS 134 109 - V4.6.0 - Universal Mobile Telecommunications System ...
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... 29 A.6 Using UE test loop mode 2 for testing of UE **Blind Transport Format Detection** (FDD mode) ....29 A.7 Using UE test loop mode 1 for ...
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... Uplink and Downlink. 177, (1). Detection of the Transport Format. 177, (1). **Blind Transport Format Detection**. 178, (1). Transport Format Detection Based on TFCI ...
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[PDF] MX368041A/B MX368041A/B-10
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... 3GPP TS 25.101 UE Radio Transmission and Reception (FDD) 8.10 **Blind transport format detection** A.4 DL reference measurement channel for BTFD performance ...
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UMTS - Design Details&System Engineering
... How are the initial parameters (eg access slot number) for network access be selected by the UE? In which way is **blind transport format detection** performed? ...
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[PDF] ME7873A
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... effects √ √ √ √ 7.9 Downlink compressed mode √ √ √ √ 7.10
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... When no TFCI is transmitted, so called **blind transport format detection** is used, ie the receiver side detects the transport format combination using some ...
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... In downlink, there is an option to use **Blind Transport Format Detection** (BTFD). In that case, TFCI don't have to be transmitted. 30.3.2004 34 ...
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... measurement occasion avoidance. TSGR2_33, R2-023097.zip, Use of DCH Quality Target with **Blind Transport Format Detection**. TSGR2_33, R2-023098 ...
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... 44, 忙时呼叫尝试, Busy Hour Call Attempts, BHCA, YD/T 1296-2003. 45, 盲目传输格式检测, **Blind Transport Format Detection**, BTFD, ...
www.ptsn.net.cn/xueyuan/teleterm.php3?name=& captal=B&select=&cn=2&en=&PageNo=3 - 7k - Cached - Similar pages

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... YD5094. 317, 码组差错率 (G.701) , Block Error Ratio, BLER, 318, 盲目传输格式检测, **Blind Transport Format Detection**, BTFD, 319, ...
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... Einzige Ausnahme davon ist, falls mit „**Blind Transport Format Detection**" (BTFD) gearbeitet wird –wie zB bei Verbindungen mit dem Downlink Dedicated ...
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... 029, 1, R99, 3.1.1, 3.2.0, Limitations of **blind transport format detection**, RP-07, RP-000061, approved, R1, R1-11, R1-000241, Agreed, 2000-03-06, -, -, -. ...
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Electronic Engineering Times - Asia
... The MA1000 also offers an AMR vocoder, **blind transport format detection**, 3GPP encryption, USIM interface, and a gated transmission for reduced power consumption ...
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3GPP_TSG_RAN_WG1 Archives - October 1999
... AH 4, **blind transport format detection** in S25.212: AH 4, **blind transport format detection** in S25.212 (43 lines) From: Anu Virtanen <anu.ha.virtanen@NOKIA.COM ...
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... PDF/Adobe Acrobat - Look (A/P) 15 Dual Frequency Microstrip Antennas FANG JUN Lee Ching Kwang (A/P)16 **Blind Transport Format Detection** for () SATHIAVAGEESWARAN ...
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... power ratio can be set. This ratio is important for **blind transport format detection**. The power control procedure is described in [5]. ...
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[PDF] "Glossary of Terms". In: Convergence Technologies for 3G Networks
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... BSSGP Base Station Subsystem GPRS Protocol BSSMAP Base Station Subsystem Management Application Part Btag Beginning Tag BTFD **Blind Transport Format Detection** ...
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... the physical channel rate. The use of DTX enables simple **blind transport format detection**, based on CRC. However, CRC is calculated ...
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... both decoders. Moreover it supports **blind transport format detection**. Special emphasis is put on low energy consumption. The full ...
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... The TFCI field does not exist for combinations that are static (ie fixed bit rate allocations) or **blind transport format detection** is employed. ...
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... rate service environment. One such detection scheme, the **blind transport format detection** (BTFD) scheme, is studied. From the performance ...
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... trame courante. Il existe cependant une exception, il s'agit de l'utilisation du BTFD (**Blind Transport Format Detection**). Dans ...
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Insoo Sohn Seoyoung Lee
Radio & Broadcasting Tech. Lab, ETRI, Taejon ;

This paper appears in: **Vehicular Technology Conference, 2001. VTC 2001 Fall. IEEE VTS 54th**
Meeting Date: 10/07/2001 -10/11/2001
Publication Date: 2001
Location: Atlantic City, NJ , USA
On page(s): 1589-1592 vol.3
Volume: 3, References Cited: 5
IEEE Catalog Number: 01CH37211
Number of Pages: 4 vol.(lxxiii+xii+2777)
INSPEC Accession Number: 7219662

Abstract:
One of the key technologies introduced in the W-CDMA system is blind rate detection the multi-rate service environment. One such detection scheme, the blind transport format detection (BTFD) scheme, is studied. From the performance study of FER (fra error rate) and FDR (false detection rate), it was found that the performance of BTFD without transmission rate information was almost equal to that of detection with a pr transmission rate information in W-CDMA system

Index Terms:
Viterbi decoding code division multiple access mobile radio radio receivers Viterbi decoder W-CDMA mobile receiver blind rate detection blind transport format detection coding false detection rate frame error rate multi-rate service transmission rate information

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   TSG-RAN Working Group 1 meeting #20. TSGR1#20(01)0565. Busan, Korea. May 21 – May 25, 2001. Agenda it **Blind transport format detection** ... Document for: Decision. **Blind transport format detection**. The following c
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   ... **Blind transport format detection** is mandatory in the UE given certain limitations ... paragraph 4.3.1, it is state
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3. TS 25.212 (PDF)
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6. Artech House -- High-Tech Books & Software for Engineers and Managers
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7. Article: Expanding WCDMA receiver tests
   ... transmitter and receiver, explains UMTS-specific **blind transport format detection** (BTFD) tests and presents
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8. http://www.pal.ece.iisc.ernet.in/PAM/iisc-drdo-ac-talk3.ppt (MICROSOFT POWERPOINT)
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   ... Moreover it supports **blind transport format detection**. Special emphasis is put on low energy consumption. .
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    MA1050: 3G W-CDMA Programmable Baseband Processor ... Spreading factor 4 on both downlink and uplink ch
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    ... BTFD. **Blind Transport Format Detection** ...
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... This ratio is important for **blind transport format detection** ...
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... 3GPP 12.2Kbps AMR decoding channels and 200 **Blind Transport Format Detection** (BTFD) channels, and t
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... 3GPP 12.2Kbps AMR decoding channels and 200 **Blind Transport Format Detection** (BTFD) channels, and t
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... • Spreading Factor 4 on both downlink and uplink. • **Blind transport format detection** ...
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University of Newcastle. Final Year Project Report. 3G Technologies. Name: Chua Swee Siang. Student Number:
murray.newcastle.edu.au/users/students/.../FYP_Report_3004516_Web.htm - 521k - Cached - More from this site

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Andries, Alvin, Agilent Tech.Belgium, S.A/N.V / Vandenhoeck, Roel, Agilent Tech.Belgium, S.A/N.V / Dunphy, Stephen, Agilent Tech.Belgium, S.A/N.V / Agilent Technologies, Inc. - a Delaware corporation -, *EUROPEAN PATENT APPLICATION*, Feb 2004
The present invention is related to a **blind transport format detection** method for detecting the transport format of a spread spectrum signal, comprising the steps of: initialising a signal path cost...

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☐ **2.** Blind transport format detection method
Nagata, Toshio / Yagyu, Mitsuhiko / Texas Instruments Incorporated, *EUROPEAN PATENT APPLICATION*, Dec 2003
Blind transport format detection with sliding window trace-back for evaluating decodings to candidate block lengths together with piecewise linear approximation of the reliability logarithm function with a small lookup table plus simple logic.

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☐ **3.** RECEIVER AND RECEIVING METHOD FOR CDMA COMMUNICATION SYSTEM
MURATA, Shuuichi / NAKAYAUCHI, Natsuhiko / FUJITSU LIMITED, *EUROPEAN PATENT APPLICATION*, May 2004
When it is detected that a CRC check is acceptable in **Blind Transport Format Detection**(BTFD) processing, the BTFD processing is halted from this moment onward, the number of bits of voice code of each class is decided...

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AHMED WALID / PAN SI MING / LUCENT TECHNOL INC, *PATENT ABSTRACTS OF JAPAN*, May 2003
PROBLEM TO BE SOLVED: To provide a method of detecting format of received information without the use of TFCI. SOLUTION: The method is used to detects the format of the received information by measuring the time period during which information being...

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☐ **5.** BLIND TRANSPORT FORMAT DETECTION USING SOFT DECISION MONITORING
FISHER-JEFFES, Timothy / UBINETICS LIMITED, *PATENT COOPERATION TREATY APPLICATION*, Apr 2003
A device for receiving blind transport format data and estimating the transport format of the data including a soft decision power monitor and a power change detector. The power monitor monitors the magnitude of soft decisions in the data over time....

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☐ **6.** Method of blind transport format detection
Ahmed, Walid / Kumar Das, Santanu / Freiberg, Lorenz Fred / Grogan, John G. / Pan, Si Ming / LUCENT TECHNOLOGIES INC., *EUROPEAN PATENT APPLICATION*, Apr 2003
A method of detecting the format of received information by detecting the format of a guiding channel of a communication system. With the use of a lookup table or other mapping technique, the detected guiding channel format is used to determine the...

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☐ **7.** Method of blind transport format detection based on power transitions
Walid, Ahmed / Si Ming, Pan / LUCENT TECHNOLOGIES INC., *EUROPEAN PATENT APPLICATION*, Apr 2003
A method of detecting the format of received information by measuring the time period during which information being received have a power that is at or above a defined threshold. The measured time period and the information rate of the received...

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☐ **9.** R1-00-1310_LS_BTFD.PDF
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...RAN WG2 Title: LS on **Blind transport format detection** limitations Contact Person...WG1 has discussed the **Blind Transport Format Detection** (BTFD) limitations during...Approval Introduction **Blind transport format detection** is mandatory in the UE...
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☐ **1.** METHOD OF BLIND TRANSPORT FORMAT DETECTION BASED ON POWER TRANSITION
AHMED WALID / PAN SI MING / LUCENT TECHNOL INC, *PATENT ABSTRACTS OF JAPAN*, May 2003
...detects the **format** of the received **information** by measuring the **time period** during which...**information rate** of the received...estimated **information** size value...determines the **format** of the received **information**. Therefore, the **format** of the received...

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☐ **2.** Method of blind transport format detection based on power transitions
Walid, Ahmed / Si Ming, Pan / LUCENT TECHNOLOGIES INC., *EUROPEAN PATENT APPLICATION*, Apr 2003
...detecting the **format** of received **information** by measuring the **time period** during which...**information rate** of the received...determines the **format** of the received **information**. Therefore, the **format** of received **information** can be detected...

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...Duplex TDMA **Time** Division...Access TFCI **Transport-Format** Combination...Error **detection** on **transport** channels...CCTrCHs). - **Rate** matching...Frequency and **time** (chip, bit...code and **time** slot. The **information rate** of the channel...
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1 **Maximum-likelihood block-size detection for MPSK signaling**
Ahmed, W.K.M.;
Vehicular Technology, IEEE Transactions on ,Volume: 51 , Issue: 3 , May 2002
Pages:511 - 525

[Abstract] [PDF Full-Text (556KB)] **IEEE JNL**

2 **Upper and lower bounds to estimate the random coding exponent for a peak-power-limited channel**
Ahmed, W.K.M.; McLane, P.J.;
Communications, IEEE Transactions on ,Volume: 50 , Issue: 1 , Jan. 2002
Pages:16 - 20

[Abstract] [PDF Full-Text (84KB)] **IEEE JNL**

3 **Information theoretic considerations for coded modulation over fading channels**
Ahmed, W.K.M.; McLane, P.J.;
Communications, IEEE Transactions on ,Volume: 48 , Issue: 12 , Dec. 2000
Pages:1970 - 1974

[Abstract] [PDF Full-Text (132KB)] **IEEE JNL**

4 **Random coding error exponents for flat fading channels with realistic channel estimation**
Ahmed, W.K.M.; McLane, P.J.;
Selected Areas in Communications, IEEE Journal on ,Volume: 18 , Issue: 3 , March 2000
Pages:369 - 379

[Abstract] [PDF Full-Text (240KB)] **IEEE JNL**

5 **Random coding error exponents for two-dimensional flat fading channels with complete channel state information**
Ahmed, W.K.M.; McLane, P.J.;
Information Theory, IEEE Transactions on ,Volume: 45 , Issue: 4 , May 1999
Pages:1338 - 1346

[Abstract] [PDF Full-Text (368KB)] **IEEE JNL**

6 **On the error exponent for memoryless flat fading channels with channel-state-information feedback**
Ahmed, W.K.M.; McLane, P.J.;
Communications Letters, IEEE ,Volume: 3 , Issue: 2 , February 1999
Pages:49 - 51

[Abstract] [PDF Full-Text (108KB)] **IEEE JNL**

7 **A method for coarse frequency acquisition for Nyquist filtered MPSK**
Ahmed, W.K.M.; McLane, P.J.;
Vehicular Technology, IEEE Transactions on ,Volume: 45 , Issue: 4 , Nov. 1996
Pages:720 - 731

[Abstract] [PDF Full-Text (976KB)] **IEEE JNL**

8 **Error bounds for the amplitude limited flat fading channel**
Ahmed, W.K.M.; McLane, P.J.;
Information Theory, 2000. Proceedings. IEEE International Symposium on , 25-30 June 2000
Pages:306

[Abstract] [PDF Full-Text (104KB)] **IEEE CNF**

9 **Achievable performance for coded modulation over fading channels**
Ahmed, W.K.M.; McLane, P.J.;
Communications, 2000. ICC 2000. 2000 IEEE International Conference on ,Volume: 3 , 18-22 June 2000
Pages:1179 - 1182 vol.3

[Abstract] [PDF Full-Text (340KB)] **IEEE CNF**

10 **Error exponents for two-dimensional time correlated flat fading channels with space diversity and channel estimation**
Ahmed, W.K.M.; McLane, P.J.;
Information Theory. 1997. Proceedings., 1997 IEEE International Symposium on , 29 June-4 July 1997
Pages:240

[Abstract] [PDF Full-Text (88KB)] **IEEE CNF**

11 **The information theoretic reliability function for multipath fading channels with diversity**
Ahmed, W.K.M.; McLane, P.J.;
Universal Personal Communications, 1996. Record., 1996 5th IEEE International Conference on ,Volume: 2 , 29 Sept.-2 Oct. 1996
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12 **Methods for estimation of the uncoded symbol error rate at the receiver**
Ahmed, W.K.M.; Balachandran, K.;
Global Telecommunications Conference, 2002. GLOBECOM '02. IEEE ,Volume: 2 , 17-21 Nov. 2002
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13 **Block-size estimation and application to BTFD for 3GPP UMTS**
Ahmed, W.K.M.;
Global Telecommunications Conference, 2001. GLOBECOM '01. IEEE ,Volume: 5 , 25-29 Nov. 2001
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Ahmed, W.K.M.; McLane, P.J.;
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Optimal blind transport format detection for UMTS uplink

Wang, M.M. Brown, T.
Motorola Inc, Arlington Heights, IL, USA;

This paper appears in: **Wireless Personal Multimedia Communications, 2002. The 5th International Symposium on**

Publication Date: 27-30 Oct. 2002
On page(s): 102- 106 vol.1
Volume: 1, ISSN: 1347-6890
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Abstract:
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Pages:2429 - 2433 vol.3

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2 **One Viterbi decoder with data rate estimation for IS-95 CDMA wireless communications**
Kwon, H.M.; Ratanamahatana, S.; Shim, J.H.;
Global Telecommunications Conference, 1997. GLOBECOM '97., IEEE ,Volume: 2 , 3-8 Nov. 1997
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